

Attorney's Docket No.: 08688-056001 / UML 02-16, 18
Ifw

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Rajesh Kumar et al.

Art Unit : 1651

Serial No. : 10/688,582

Examiner : Rosanne Kosson

Filed : October 17, 2003

Title : ENZYMATIC SYNTHESIS OF POLYMERS

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Copies of the references listed on the attached form PTO-1449 are enclosed.

This statement is being filed before the receipt of a first Office Action on the merits.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 10 - 8 - 04


J. Peter Fasse
Reg. No. 32,983

Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110-2804
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

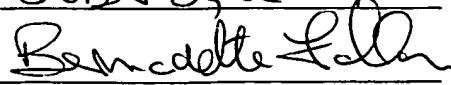
20954073.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

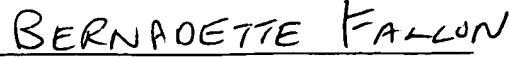
I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

October 8, 2004

Date of Deposit



Signature



Typed or Printed Name of Person Signing Certificate

Substitute Form PTO-1449 <i>(Maddrey)</i>	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 08688-056001	Application No. 10/688,582
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.9(a)(6))		Applicant Rajesh Kumar et al.	
		Filing Date October 17, 2003	Group Art Unit 1651

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AF							
	AG							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AH	Bisht et al., <i>Am. Chem. Soc.</i> , Volume 120, p. 1363, 1998.
	AI	Bruma et al., <i>J. Macromol. Sci. Polymer Reviews</i> , Volume C41 (1 & 2), p. 1, 2001.
	AJ	Chaudhary et al., Biocatalytic Solvent-free Polymerization to Produce High Molecular Weight Polyesters, <i>Biotechnol. Prog.</i> , Volume 13, pp. 318-325, 1997.
	AK	Chojnowski et al, <i>Polymer Preprints</i> , Volume 42(1), p. 227, 2001.
	AL	Cordova et al., <i>Micromolecules</i> , Volume 31, p. 1040, 1998.
	AM	Gross et al., Enzymes in Polymer Synthesis Ed., <i>ACS Symp. Ser.</i> 1998.
	AN	Gross et al., A. Polyesters and Polycarbonate Synthesis by InVitro Enzyme Catalysis, <i>Appl. Microbial. Biotechnol.</i> , Volume 55, pp. 655-660, 2001.
	AO	Gross et al., Polymer Synthesis by in vitro Enzyme Catalysis, <i>Chem. Rev.</i> , Volume 101, pp. 2097-2124, 2001.
	AP	Interrante et al., <i>Polymer Preprints</i> , Volume 42(1), p. 225, 2001.
	AQ	Jones, Enzymes in Organic Synthesis, <i>Tetrahedron.</i> , Volume 42, pp. 3351-3403, 1986.
	AR	Klibanov, Asymmetric transformations catalyzed by enzymes in organic solvents, <i>Acc. Chem. Res.</i> , Volume 23, pp.114-120, 1990.
	AS	Kline, et al. One-step Biocatalytic Synthesis of Linear Polyesters with Pendant Hydroxyl Groups, <i>J. Am Chem. Soc.</i> , Volume 120, pp. 9475-9480, 1998.
	AT	Kobayashi et al., The Polymeric Materials Encyclopedia, <i>JC Salamone</i> , Ed., <i>CRC Press</i> , BocaRaton, FL, pp. 2102-2107, 1996.

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified) OTPE OCT 13 2004 (37 CFR §1.98(e))	U.S. Department of Commerce Patent and Trademark Office Information Disclosure Statement by Applicant Use several sheets if necessary	Attorney's Docket No. 08688-056001	Application No. 10/688,582
		Applicant Rajesh Kumar et al.	
		Filing Date October 17, 2003	Group Art Unit 1651

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AU	Kobayashi et al., Catalysis in Precision Polymerization, Kobayashi, S. Ed., John Wiley & Sons, Chichester, Chapter 8, 1997.
	AV	Kobayashi et al., <i>Macromolecules</i> , Volume 31, p. 5655, 1998.
	AW	Kobayashi et al., <i>Polym. Degrad. Stab.</i> , Volume 59, p. 195, 1998.
	AX	Kobayashi et al., <i>Adv. Polym. Sci.</i> , Volume 121, p. 1, 1991.
	AY	Kobayashi et al., Enzymatic Polymerization, <i>Chem. Rev.</i> , Volume 101, pp. 3793-3818, 2001
	AZ	Kumar et al., Chemo Enzymatic Synthesis of Novel Functionalized Amphiphilic Polymers, <i>Polymer Preprints</i> , Volume 43(1), p. 578. 2002.
	AAA	Santaniello et al., The biocatalytic approach to the preparation of enantiomerically pure chiral building blocks, <i>Chem. Rev.</i> , Volume 92, pp. 1071-1140, 1992.
	ABB	Suda et al., Dehydration Polycondensation in Water for Synthesis of Polyesters by Lipase Catalysis, <i>Proc. Acad. Jp.</i> , Volume 75B, pp. 201-206, 1999.
	ACC	Torchilin, Structure and design of polymeric surfactant-based drug delivery systems, <i>J. Contr. Rel.</i> , Volume 73, pp. 137-172, 2001.
	ADD	Uyama et al., <i>Chem. Lett.</i> , pp. 1149, 1993.
	AEE	Uyama et al., Enzymatic Polymerization of Dicarboxylic Acid and Glycol to Polyester in Solvent-Free System, <i>Chemistry Letters.</i> , pp. 1285-1286, 1998.
	AFF	Uyama et al., Enzymatic Synthesis of Aromatic Polyesters by Lipase-Catalyzed Polymerization of Dicarboxylic Acid Divinyl Esters and Glycols, <i>Polymer Journal.</i> , Volume 31, pp. 383-386, 1999.
	AGG	Uyama, et al. Lipase-Catalyzed Polycondensation of Dicarboxylic acid Divinyl esters and Glycols to Aliphatic Polyesters, <i>J. Polym. Sci., Polym. Chem. Ed.</i> , Volume 37, pp. 2737-2745, 1999.
	AHH	Uyama et al., Lipase-Catalyzed Polycondensation of Dicarboxylic acid-Divinyl esters and glycols to aliphatic polyesters, <i>J. Polym. Sci., Polym. Chem. Ed.</i> , Volume 37, pp. 2737-2745, 1999.
	AII	Watterson et al., Observing the Aggregation of a Novel Amphiphilic Polymer in Solution using ¹ H-NMR Relaxation Times (T1), <i>Polymer Preprints.</i> , Volume 42, pp.189-190, 2001.
	AJJ	Zhong et al, <i>Langmuir</i> , Volume 16, p. 10369, 2000.
	AKK	

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	